

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/001608

## A. CLASSIFICATION OF SUBJECT MATTER

Int. CL 7: C04B 7/46, 22/06, 28/00, 28/02, 28/06; C01B 33/32, 33/24; B28B 21/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
C04B 7/26, 22/06, 28/00, 28/02, 28/06; C01B 33/32, 33/24; B28B 21/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WPAT; JAPIO; USPTO; Espace@net; IPC (above) and Keywords - geopolymers+, concrete+, alkali+, silicate+, (fly ash+), hydroxide+, aggregate+, cement+, Vebe

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2000/044685 A (JIN W.), 3 August 2000 See pages 7-21	1-27
X	WO 1996/025369 A (DREXEL UNIVERSITY [US] & BY-PRODUCTS DEVELOPMENT Co [US]), 22 August 1996 See pages 2-11, Claim 2	1-27
X	WO 2003/078349 A (KASTANEK F. & S. and UNIVERSITÄT FÜR CHEMIE UND TECHNOLOGIE, PRAG [CZ]), 25 September 2003 (abstract). [online] [retrieved on 2004-12-17]. Retrieved from Espace@net. & WO 2003/078349 - whole document.	1-27
D, X	US 4509985 A (DAVIDOVITS et al), 9 April 1985 Whole document	1-27

Further documents are listed in the continuation of Box C       See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 17 December 2004	Date of mailing of the international search report 23 DEC 2004
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer  WARREN TAYLOR Telephone No : (02) 6283 2229

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/AU2004/001608

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
WO	0044685	US	6296699	WO	0044686		
WO	9625369	AU	49226/96	CA	2243977	CZ	9802488
		EP	0809613	US	5601643		
WO	03078349	CZ	20021011	SK	332004		
US	4509985	AU	39967/85	CA	1236858	DK	60985
		EP	0153097	ES	8605450	FI	850514
		IN	163449	MA	20358	NO	850511
		NZ	211089	TR	22174	WO	8503699
		ZA	8501043				
US	4640715	JP	63112445				
WO	8905284	AU	27199/88	BR	8807354	DK	388189
		EP	0346416	ES	2009395	MA	21454
		NO	893208	NZ	227101	PT	89175
		US	4997484	ZA	8809186		
WO	9316965	AU	35707/93	ZA	9301375		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001608

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4640715 A (HEITZMANN et al), 3 February 1987 Whole document	1-27
X	WO 1989/005284 A (LONE STAR INDUSTRIES INC. [US]), 15 June 1989 Whole document	1-27
X	WO 1993/016965 A (PRETORIA PORTLAND CEMENT Co. [ZA] & GOMERSALL J.E.), 2 September 1993 Whole document	1-27